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(FILE 'USPAT' ENTERED AT 14:38:47 ON 26 JUL 1999)

L1 27889 S SUBSTRATE

L2 1121 S (FIBER# OR FIBRE#) (5A) GRATING#

L3 99 S L1(P)L2

L4 56595 S (THERMAL OR TEMPERATURE) (3A) EXPANSION

L5 4741 S L1(9A)L4

L6 25 S L3 AND L5

L7 3 S (5581642 OR 4444460 OR 4444458)/PN

L8 3 S L4 AND L7

L9 1 S 4444460/PN AND GRATING#

L10 374 S NEGATIVE (5A)L4

L11 10 S L1(12A)L10

L12 14656 S 385/CLAS

L13 3 S L11 AND L12

L14 34 S L10 AND L12

L15 12 S L1 AND L14

L16 3 S L2 AND L15

L17 253557 S (FIBER# OR FIBRE#)

L18 11 S L15 AND L17